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Bibliographic Information

RNA-cleaving compositions containing ribozymes and cell surface receptors-targeting agents.
Yamada, Shuhei; Kyozawa, Kyomichi. (Daiichi Kagaku Yakuhin KK, Japan; Yamada Shuhei; Kyozawa Kyomichi). Jpn. Kokai Tokkyo Koho (1995), 12 pp. CODEN: JKXXAF JP 07231784 A2 19950905 Heisei. Patent written in Japanese. Application: JP 94-25110 19940223. CAN 124:49498 AN 1995:907912 CAPLUS (Copyright 2003 ACS on SciFinder (R))

Patent Family Information

Patent No.	Kind	Date	Application No.	Date
JP 07231784	A2	19950905	JP 1994-25110	19940223

Priority Application

JP 1994-25110	19940223
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Abstract

The compn. contg. (1) a ribozyme conjugated on both ends with 2 nucleotide fragments complementary to the RNA targets and (2) a (glyco)peptide ligand that has receptors on the target cell membrane surface, which (glyco)peptide is conjugated with a polycation via a linker. A ribozyme capable of cleaving hepatitis c virus (HCV) RNA, which ribozyme is flanked with 2 oligonucleotides targeting the HCV core region is provided. An asialoorosomucoid conjugated with poly-(L)-lysine via a disulfide group is also provided for liver cells-specific introduction of the ribozyme through asialoglycoprotein receptors. Asialoglycoprotein receptors-mediated endocytosis of the ribozymes is demonstrated using human liver cell line HepG2. Cleavage of HCV RNA in human liver tumor cells is also shown.